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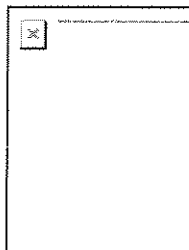
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Media LLC.
ISSN 1063-7788 (Print)
1562-692X (Online)
Issue Volume 67, Number
2 / February, 2004
Category Elementary Particles
and Fields
DOI 10.1134/1.1648929
Pages 396-405
Subject Physics and
Collection Astronomy
SpringerLink Wednesday, April 12,
Date 2006

 PDF (267.0 KB)  Free Preview

Elementary Particles and Fields Theory

Model for describing the production of
Centauro events and strangelets in heavy-ion
collisions

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Received:

18 September 2002

21 March 2003

Abstract A phenomenological model for describing the production of Centauro events in relativistic heavy-ion collisions is discussed. The model provides quantitative predictions for kinematical variables, for the baryon number, and for the masses of a Centauro fireball and of its decay products. A Centauro fireball decays predominantly into nucleons, strange hyperons, and possibly strangelets. Centauro events in Pb + Pb collisions at the LHC energy are simulated for the CASTOR detector. The signatures of these events are discussed in detail.

Translated from Yadernaya Fizika, Vol. 67,
No. 2, 2004, pp. 414–424.

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Sadovsky, Kharlov, Angelis, Gadysz-
Dziaduś, Korotkikh, Mavromanolakis,
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Deceased.



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